Internet Printing Protocol Meeting Minutes
December 17, 2020

Meeting was called to order at 3pm EST on December 17, 2020.

Attendees

Cihan Colakoglu
Smith Kennedy (HP)
Ira McDonald (High North)
Anthony Suarez (Kyocera Document Solutions)
Michael Sweet (Lakeside Robotics)
Bill Wagner (TIC)
Uli Wehner (Ricoh)
Steven Young (Canon)

Agenda Items

1. IP policy and minute taker
   - https://www.pwg.org/chair/membership_docs/pwg-ip-policy.pdf
   - IP policy accepted, Mike taking minutes
2. Approve previous minutes
   - https://ftp.pwg.org/pub/pwg/ipp/minutes/ippv2-concall-minutes-20201203.pdf
   - Approved as posted
   - MS Universal Print Meeting went well
3. Status/Review of various IPP mailing list notes
   - https://www.pwg.org/archives/ipp/2020/020801.html
       - IPP Enterprise Printing Extensions v2.0: Restrict Job Release to only those that support spooling?
       - Do we need a job-k-octets-remaining attribute?
           - Smith: HP's implementation might adjust job-k-octets-supported based on the remaining free space...
           - Yes, add to EPX as "job-k-octets-remaining (integer(0:MAX))"
           - Mike: What about a printer-state-reasons keyword for low storage?
               - No, could add 'spool-area-almost-full' reason for almost full
               - Also look at storage sub-unit reasons patterned on other subunits
               - Q: Should we add printer-storage/-description attributes?
                   - A: Yes
               - Action: Mike to post new printer-state-reasons for

                storage state and printer-storage/-description
                attributes to IPP list
- Q: Do we need spooling for job storage?
    - A: Yes
- Q: What about guidance for new attributes, Validate-Job?
    - A: Yes.
    - Client can supply job-k-octets in Validate-Job, Client can query printer attrs, BUT there is a race condition between Client preparation and acceptance by Printer
    - Focus on highlighting possibilities vs. setting conformance requirements
- Q: Do we want a minimum amount of storage for Job Release or Job Storage?
    - A: Yes, start at 256MIB (262144 k-octets)
- https://www.pwg.org/archives/ipp/2020/020802.html
    - RFC 8890 The Internet is for End Users
- https://www.pwg.org/archives/ipp/2020/020805.html
    - Fwd: [info] GitHub's report on open-source security

4. Status of AMSC and ISO liaisons w/ PWG (Paul)
   - https://ftp.pwg.org/pub/pwg/general/sc/pwg-sc-call-minutes-20201116.htm
   - https://ftp.pwg.org/pub/pwg/general/sc/pwg-sc-call-minutes-20201130.htm
   - https://ftp.pwg.org/pub/pwg/general/sc/pwg-sc-call-minutes-20201214.htm
   - See PWG Steering Committee minutes from 11/16/20, 11/30/20, 12/14/20

5. Review of IPP WG Charter (Ira)
   - https://www.pwg.org/archives/ipp/2020/020809.html
   - https://ftp.pwg.org/pub/pwg/ipp/wd/wd-ipp-charter-20201208-rev.pdf
   - Interim draft - for new work items
   - PWG discussion at PWG November F2F on 3 November 2020
   - IPP WG review on 3 December 2020
   - Schedule - IPP WG and PWG approval in Q1 2021
   - Qualify that the SNMP MIBs we work on are the imaging MIBs (Printer MIB v2, Finisher MIB, etc. - just add a list on line 82)
   - Next draft will be stable

6. IPP Finishings 2.2:
   - Mike: Want to make sure the subunit wording is unambiguous - some finishers are configured/installed in the printer, but might not be attached/available at any given time
      - Finishers may be supported/configured for a particular product but not installed/connected
      - Ira: Finisher might be shared amongst a group of printers in a "light production" environment
      - Input trays: you can remove the tray, the enclosure is still there
      - Mike: One of the benefits of IPP is that the capabilities and status represent the current configuration of the printer and not some future possible configuration - finisher subunits should only be the things that have been configured/installed and not optional but not present

- Ira: Make presentonoff, status keywords RECOMMENDED
- printer-finisher lists configured finisher subunits (either physically present or configured/installed but temporarily disconnected/ detached)
7. MS Cloud Printing/INFRA discussions
   - Microsoft has forked the ippsample project to track changes to support MS Universal Print Service and provide pull requests
   - X.509 certificates are used to authenticate the connection to the OAuth Authorization Server to obtain tokens, then OAuth is used for Proxy requests
   - IPP Notifications are used by the Proxy
   - Will get back to us on supporting more than 2048-bit RSA certs
   - Mike will post a list of areas of improvement that MS would like to see in IPP - direct (local) printing when Printer is visible/accessible to Client, follow-me printing, scan, more Printer MIB attributes
   - Action: Mike to post MS requests to IPP list

Next Steps / Open Actions

- Next conference call January 14, 2020 at 3pm EST
- Action: Mike to post new printer-state-reasons for storage state and printer-storage/-description attributes to IPP list
- Action: Mike to post MS requests to IPP list
- Action: Smith to schedule a follow-on meeting with Microsoft concern cloud printing (DONE)
- Action: Mike to start PWG Formal Vote of Job Accounting starting Jan 4, 2021 ending Feb 1, 2021 (PENDING)
- Action: Smith to review current print quality wiki page (PENDING)
- Action: Mike to follow-up with printer-asset-tag and printer-serial-number registration (DONE)
- Action: Smith to coordinate printer-finisher/-supply wording updates with Mike and Steven (DONE)
- Action: Smith to post question about restricting Release Printing to spooling printers to the IPP list - should we attempt to support Releasing Printing for streaming printers? (DONE)
- Action: Smith to ping Ira about hash algorithm RFCs (DONE)
- Action: Smith to file errata issue for 5100.19 to incorporate the old pages, impressions, and sheets content from 5100.11-2011 (DONE)
- Action: Ira/Smith/Mike to file an errata against PWG 5101.2 to fix ABNF and provide extension points (DONE)
- Action: Mike, Ira, and Smith to develop IPP Everywhere value proposition content (PENDING)